

Bachelor of Science-Aeronautics (Avionics)

Intake Capacity : 60 Students

Candidates shall have passed H.S.C. examination of Maharashtra State Board of Secondary and Higher Secondary Education with Physics, Mathematics and English have secured not less than 45% mark in aggregate (40% marks in case of reserved category candidate). This course shall be a full time course. The duration of course will be six semesters spread over three years.

Course Details :

First Year	
Semester I	Semester II
1.USARA101 BASIC AERODYNAMICS	1.USARA201 BASIC AERODYNAMICS
2.USARA102 WORKSHOP TECHNOLOGY	2.USARA202 WORKSHOP TECHNOLOGY
3.USARA103 ELECTRICAL FUNDAMENTAL(I)	3.USARA203 ELECTRICAL FUNDAMENTAL(I)
4.USARA104 ENGINEERING DRAWING	4.USARA204 ENGINEERING DRAWING
5.USARA105 HUMAN FACTORS / COMMUNICATION SKILL	5.USARA205 HUMAN FACTORS / COMMUNICATION SKILL
6.USARA1P1 BASIC AERODYNAMICS& WORKSHOP TECHNOLOGY (PRACTICAL)	6.USARA2P1 BASIC AERODYNAMICS& WORKSHOP TECHNOLOGY (PRACTICAL)
7.USARA1P2 ELECTRICAL FUNDAMENTAL(I)(PRACTICAL)	7.USARA2P2 ELECTRICAL FUNDAMENTAL(I)(PRACTICAL)
8.USARA1P3 ENGINEERING DRAWING(PRACTICAL)	8.USARA2P3 ENGINEERING DRAWING(PRACTICAL)
Second Year	
Semester III	Semester IV
1.USARA301 MAINTENANCE PRACTICES(II)	1.USARA401 MAINTENANCE PRACTICES(II)
2.USARA302 AVIATION LEGISLATION (I)	2.USARA402 AVIATION LEGISLATION (I)
3.USARA303 DIGITAL AND COMPUTER TECHNIQUES	3.USARA403 DIGITAL AND COMPUTER TECHNIQUES
4.USARA304 AIRCRAFT MATERIALS	4.USARA404 AIRCRAFT MATERIALS
5.USARA305 THEORY OF FLIGHT CONTROLS	5.USARA405 THEORY OF FLIGHT CONTROLS
6.USARA3PI AIRCRAFT MATERIAL & MAINTENANCE PRACTICES (II) (PRACTICAL)	6.USARA4PI AIRCRAFT MATERIAL & MAINTENANCE PRACTICES (II) (PRACTICAL)
7.USARA3P2 DIGITAL AND COMPUTER TECHNIQUES (PRACTICAL)	7.USARA4P2 DIGITAL AND COMPUTER TECHNIQUES (PRACTICAL)
8.USARA3P3 THEORY OF FLIGHT & FLIGHT CONTROLS (PRACTICAL)	8.USARA4P3 THEORY OF FLIGHT & FLIGHT CONTROLS (PRACTICAL)
Third Year	
Semester V	Semester VI

1.USARA501 AIRFRAME SYSTEM (I)	1.USARA601 AIRFRAME SYSTEM (I)
2.USARA502 LANDING GEAR, WHEELS & BRAKES	2.USARA602 LANDING GEAR, WHEELS & BRAKES
3.USARA503 AIRFRAME SYSTEM (II)	3.USARA603 AIRFRAME SYSTEM (II)
4.USARA504 DIGITAL TECHNIQUES (II)	4.USARA604 DIGITAL TECHNIQUES (II)
5.USARA505 AIRCRAFT FUEL & FUEL SYSTEM	5.USARA605 AIRCRAFT FUEL & FUEL SYSTEM
6.USARA5P1 AIRFRAME SYSTEM (I) & AIRFRAME SYSTEM (II) (PRACTICAL)	6.USARA6P1 AIRFRAME SYSTEM (I) & AIRFRAME SYSTEM (II) (PRACTICAL)
7.USARA5P2 LANDING GEAR, WHEELS & BRAKES(PRACTICAL)	7.USARA6P2 LANDING GEAR, WHEELS & BRAKES(PRACTICAL)
8.USARA5P3 DIGITAL TECHNIQUES (II) (PRACTICAL)	8.USARA6P3 DIGITAL TECHNIQUES (II) (PRACTICAL)